

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
Telephone: (801) 538-5340  
Fax: (801) 359-3940

ANNUAL REPORT OF MINING OPERATIONS

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, as amended, and the General Rules as promulgated under the Utah Minerals Regulatory Program. An operator conducting mining operations under a Notice of Intention must file an annual operations and progress report (FORM MR-AR) with the Division.

I. GENERAL INFORMATION

1. Report Time Period: From (mo./yr.) Jan., 1990 To (mo./yr.) Dec., 1990
2. DOGM File Number (original notice): M / 045 / 003
3. Mine Name: Utah Marblehead Lime Company
4. Legal Description (Location of Lands Affected): See Attachment "A"  
     1/4,      1/4, Section     , Township     , Range       
     1/4,      1/4, Section     , Township     , Range       
     1/4,      1/4, Section     , Township     , Range
5. Mineral(s) Mined: Dolomitic Limestone
6. Name of Operator or Company: Utah Marblehead Lime Company
7. Permanent Address: 222 North LaSalle Street  
Suite 1200  
Chicago, Illinois 60601-1091

8. Company Representative (or designated operator):

Name: Mr. Eugene J. Penman  
Title: Vice President of Operations  
Address: 390 E. Joe Orr Road., Chicago Heights, IL 60411  
Phone: (312) 468-8846

☐ Please check if any of the above information has changed since previous year.

II. MINING AND RECLAMATION

1. Was the mine active during the past year? Yes ☒ No ☐

2. If active, how much ore or mineral was mined? 64,287 Tons

3. Briefly describe any new or additional surface disturbances that occurred during the past year. This description should include the type of work performed, volume of material moved, and the acreage affected.

None

4. Briefly describe the reclamation work performed during the past year. This description should include acreage reclaimed, methods employed, and an evaluation of the results.

No reclamation work was performed. The 1st year's results on  
monitoring of growth rate on our reclamation test plots is attached  
as Attachment "B".

5. What was the total unreclaimed acreage at years end? 49 Acres.



6. Briefly summarize mining and reclamation planned for the upcoming year.

Approximately 100,000 tons of dolomitic limestone will be removed  
from quarry in 1991. In early September, test plots will again be  
monitored by outside contractor to determine growth rate.

NOTE: Section III., "Additional Information" applies only to large mining operations.

### III. ADDITIONAL INFORMATION

1. An updated surface facilities map should be attached if there have been significant changes since the previous map was submitted.
2. Any monitoring results or other reports that are required under the terms of the approved notice of intention should also be attached.

### IV. SIGNATURE REQUIREMENT

I hereby certify that the foregoing is true and correct.

Name (Typed or Print):

Eugene J. Penman

Title of Operator:

Vice President of Operations

Signature of Operator:



Date:

1/15/91

jb  
MNMR-AR



**Marblehead Lime Company**  
A General Dynamics Company

390 East Joe Orr Road  
P.O. Box 488  
Chicago Heights, Illinois 60411  
708/757-6201  
FAX 312/468-8783

Name of Claims		Notice of Location Recorded In--	
UMC		Book	Page
111554	W <sub>2</sub> Betsy #14, S <sub>2</sub> NE <sub>4</sub> SW <sub>4</sub>	32	447
111555	W <sub>2</sub> Betsy #15, N <sub>2</sub> NE <sub>4</sub> SW <sub>4</sub>	32	448
111556	W <sub>2</sub> Betsy #16, S <sub>2</sub> SE <sub>4</sub> NW <sub>4</sub>	32	449
111557	Betsy #17, N <sub>2</sub> SE <sub>4</sub> NW <sub>4</sub>	63	169
111558	Betsy #18, S <sub>2</sub> NE <sub>4</sub> NW <sub>4</sub>	63	170
111559	Betsy #19, N <sub>2</sub> NE <sub>4</sub> NW <sub>4</sub>	63	171
111560	Betsy #20, N <sub>2</sub> SW <sub>4</sub> NE <sub>4</sub>	63	172
285958	Betsy #43, N <sub>2</sub> SE <sub>4</sub> NE <sub>4</sub>	231	881
All Claims in Sec. 22, T.2N, R.9W, S.L.B.M.			
111561	Betsy #22, W <sub>2</sub> SW <sub>4</sub> NW <sub>4</sub>	63	174
111562	Betsy #23, W <sub>2</sub> NW <sub>4</sub> SW <sub>4</sub>	63	175
111563	Betsy #24, E <sub>2</sub> NW <sub>4</sub> SW <sub>4</sub>	63	176
111564	Betsy #25, E <sub>2</sub> SW <sub>4</sub> SW <sub>4</sub>	63	177
All Claims in Sec. 23, T.2N, R.9W, S.L.B.M.			
111565	Betsy #26, E <sub>2</sub> NW <sub>4</sub> NW <sub>4</sub>	63	178
111566	Betsy #27, N <sub>2</sub> NE <sub>4</sub> NW <sub>4</sub>	63	179
Both Claims in Sec. 26, T.2N, R.9W, S.L.B.M.			
111567	Betsy #28, N <sub>2</sub> NE <sub>4</sub> NE <sub>4</sub>	63	180
111568	Betsy #29, N <sub>2</sub> NW <sub>4</sub> NE <sub>4</sub>	63	181
111569	Betsy #30, N <sub>2</sub> NE <sub>4</sub> NW <sub>4</sub>	63	182
111570	Betsy #31, N <sub>2</sub> NW <sub>4</sub> NW <sub>4</sub>	63	183
All Claims in Sec. 5, T.1N, R.8W, S.L.B.M.			
111571	Betsy #32, E <sub>2</sub> NE <sub>4</sub> NE <sub>4</sub>	63	184
Sec. 6, T.1N, R.8W, S.L.B.M.			
111572	Betsy #33, E <sub>2</sub> SE <sub>4</sub> SE <sub>4</sub>	63	185
111573	Betsy #34, E <sub>2</sub> NE <sub>4</sub> SE <sub>4</sub>	63	186
Both Claims in Sec. 31, T.2N, R.9W, S.L.B.M.			
111538	Lakeview #2, W <sub>2</sub> W <sub>2</sub> SE <sub>4</sub>	3	171
111539	Lakeview #3, NE <sub>4</sub>	3	172
Both Claims in Sec. 35, T.2N, R.9W, S.L.B.M.			



## Name of Claim

Notice of Location  
Recorded In --

UMC		Book	Page
111540	Lakeview #4, SE $\frac{1}{4}$	3	173
111541	Lakeview #5, NW $\frac{1}{4}$	3	174
	Both Claims in Sec. 26, T.2N, R.9W, S.L.B.M.		
111542	Lakeview #7, SW $\frac{1}{4}$	4	166
111543	Lakeview #8, NW $\frac{1}{4}$	4	165
111544	Lakeview #9, NE $\frac{1}{4}$	4	158
111545	Lakeview #10, SE $\frac{1}{4}$	4	159
	All Claims in Sec. 25, T.2N, R.8W, S.L.B.M.		
111546	Lakeview #11, SW $\frac{1}{4}$	4	160
111547	Lakeview #12, SE $\frac{1}{4}$	4	161
	Both Claims in Sec. 30, T.2N, R.8W, S.L.B.M.		
111548	Lakeview #13, NE $\frac{1}{4}$	4	162
	Sec. 31, T.2N, R.8W, S.L.B.M.		
111549	Lakeview #14, NW $\frac{1}{4}$	4	163
	Sec. 33, T.2N, R.8W, S.L.B.M.		
111550	Lakeview #15, NW $\frac{1}{4}$	4	164
	Sec. 4, T.1N, R.8W, S.L.B.M.		
111551	W $\frac{1}{2}$ of Betsy #1, N $\frac{1}{2}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$	32	434
	Sec. 27, T.2N, R.9W, S.L.B.M.		
111552	W $\frac{1}{2}$ of Betsy #4, S $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$	32	437
111553	Betsy #13, S $\frac{1}{2}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$	32	446
	Both Claims in Sec. 22, T.2N, R.9W, S.L.B.M.		
255093	Jeanette #1, E $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$	203	367
	Sec. 6, T.1N, R.8W, S.L.B.M.		
255094	Jeanette #2, W $\frac{1}{2}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$	203	368
	Sec. 5, T.1N, R.8W, S.L.B.M.		
255095	Jeanette #3, N $\frac{1}{2}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$	203	369
	Sec. 7, T.1N, R.8W, S.L.B.M.		
255096	Jeanette #4, N $\frac{1}{2}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$	203	370
	Sec. 8, T.1N, R.8W, S.L.B.M.		
255302	Jeanette #5, N $\frac{1}{2}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$	203	496
	Sec. 7, T.1N, R.8W, S.L.B.M.		
255303	Jeanette #6, S $\frac{1}{2}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$	203	497
	Sec. 7, T.1N, R.8W, S.L.B.M.		
255304	Jeanette #7, W $\frac{1}{2}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$	203	498
	Sec. 7, T.1N, R.8W, S.L.B.M.		
256506	Jeanette #8, W $\frac{1}{2}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$	204	234
	Sec. 6, T.1N, R.8W, S.L.B.M.		



Name of Claim		Notice of Location Recorded In --	
UMC		Book	Page
257116	Jeanette #9, W $\frac{1}{2}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$	205	77
257117	Jeanette #10, N $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$	205	78
Both Claims in Sec. 7, T.1N, R.8W, S.L.B.M.			
257118	Jeanette #11, E $\frac{1}{2}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$	205	79
257119	Jeanette #12, S $\frac{1}{2}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$	205	80
257120	Jeanette #13, S $\frac{1}{2}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$	205	81
257121	Jeanette #14, S $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$	205	82
All Claims in Sec. 5, T.1N, R.8W, S.L.B.M.			
257122	Jeanette #15, N $\frac{1}{2}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$	205	83
257123	Jeanette #16, N $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$	205	84
257124	Jeanette #17, N $\frac{1}{2}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$	205	85
257125	Jeanette #18, S $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$	205	86
257126	Jeanette #19, S $\frac{1}{2}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$	205	87
All Claims in Sec. 8, T.1N, R.8W, S.L.B.M.			
265766	Jeanette #26, E $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$	-	-
265767	Jeanette #27, E $\frac{1}{2}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$	-	-
327789	Jeanette #34, E $\frac{1}{2}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$	293	557
327790	Jeanette #35, W $\frac{1}{2}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$	293	558
327791	Jeanette #36, W $\frac{1}{2}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$	293	559
327792	Jeanette #37, E $\frac{1}{2}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$	293	560
327793	Jeanette #38, W $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$	293	561
327794	Jeanette #39, W $\frac{1}{2}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$	293	562
327795	Jeanette #40, E $\frac{1}{2}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$	293	563
327796	Jeanette #41, W $\frac{1}{2}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$	293	564
327797	Jeanette #42, E $\frac{1}{2}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$	293	565
327798	Jeanette #43, E $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$	293	566
All Claims in Sec. 8, T.1N, R.8W, S.L.B.M.			

Legal Description Of The Claims Patented By  
Utah Marblehead Lime Company

Patented Claim	No.	Location	
Betsy	1	NE1/4, NE1/4, NE1/4, Sec.27	T2N R9W
Betsy	2	W1/2, NW1/4, NW1/4, Sec.26	T2N R9W
Betsy	3	W1/2 SW1/4, SW1/4, Sec.23	T2N R9W
Betsy	4	SE1/4, SE1/4, SE1/4, Sec.22	T2N R9W
Betsy	5	N1/2, SE1/4, SE1/4, Sec.22	T2N R9W
Betsy	6	S1/2, NE1/4, SE1/4, Sec.22	T2N R9W
Betsy	7	N1/2, NE1/4, SE1/4, Sec.22	T2N R9W
Betsy	8	S1/2, SE1/4, NE1/4, Sec.22	T2N R9W
Betsy	9	S1/2, SW1/4, NE1/4, Sec.22	T2N R9W
Betsy	10	N1/2, NW1/4, SE1/4, Sec.22	T2N R9W
Betsy	11	S1/2, NW1/4, SE1/4, Sec.22	T2N R9W
Betsy	12	N1/2, SW1/4, SE1/4, Sec.22	T2N R9W
Betsy	14	SE1/4, NE1/4, SW1/4, Sec.22	T2N R9W
Betsy	15	NE1/4, NE1/4, SW1/4, Sec.22	T2N R9W
Betsy	16	SE1/4, SE1/4, NW1/4, Sec.22	T2N R9W
Lakeview	1	NW1/4, Sec. 1	T1N R9W
Lakeview	2	E1/2, SE1/4, Sec.35	
		and the E1/2, W1/2, SE1/4, Sec.35	T2N R9W

All claims located North of The Salt Lake Base Meridian in  
Tooele County, Utah

  
James E. Bastian, Geologist  
August 10, 1989



Vegetation Inventory - Test Plots  
Marblehead Lime Company, Delle, Utah

On September 4, 1990, personnel from E.I.S. performed a first year inventory of the vegetation test plots, Marblehead Lime company, Delle, Utah.

Methodology

Due to the sparseness of the vegetation, a 100% inventory was conducted on the 5 test plots as well as the individual strip planting of each species utilized.

The results of that inventory are enumerated on the attached Figure 1. Photographs showing the individual plots plus an overview of the test area are attached.

Conclusions:

While the overall success appears to be lacking with little evidence of desirable vegetation, I feel that a judgement relative to potential success would be premature at this time. Several areas were examined by digging what appeared to be viable seed still intact. The conclusions drawn on site indicate that conditions suitable for germination did not occur this growing season. A large number of seeds should carry over and a potential for success remains high through the 1991 season.



Figure 1

## Vegetation Inventory - Test Plots

100% Inventory

Plantings	T1	T2	T3	T4	T5
Winterfat	27 Halogeton	20 Halogeton	7 Halogeton	1 Halogeton	10 Halogeton
Galleta	2 Thistle	48 Thistle	15 Thistle	22 Thistle	13 Thistle
High Crest	1 Four-wing	3 Globemallow		3 Globemallow	2 Globemallow
Y. Sweetclover		1 Sweet Clover		1 Cr. Wheat	
Bluebunch	40-0-10 Fertilizer	10-20-10 Fertilizer	10-20-10 Fertilizer	40-0-30 Fertilizer	CONTROL
Thickspike					NO Fertilizer
Indian Ricegr	2000# mulch/acre	2000# mulch/acre	No mulch	No mulch	No mulch
Fairway					
Gooberry					
Globemallow					
Four-wing					
Ephraim Cr. Wheat					



SW  
**Marblehead Lime Company**  
A General Dynamics Company

390 East Joe Orr Road  
P.O. Box 488  
Chicago Heights, Illinois 60411  
708/757-6201  
FAX 312/468-8783

January 15, 1991

Mr. D. Wayne Hedberg - Permit Supervisor  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

**RECEIVED**  
JAN 22 1991

**DIVISION OF  
OIL, GAS & MINING**

RE: ANNUAL REPORT OF MINING OPERATIONS  
PERMIT NUMBER M/045/003

Dear Mr. Hedberg:

Attached please find our Form MR-AR Annual Report of Mining Operations.

During this reporting period, all mining activity was accomplished within the boundaries of acreage already disturbed. Attachment "A" this year are the legal descriptions of all our mining claims. Attachment "B" is a report, explaining the first year monitoring of the test plots implemented in October, 1989.

If additional information is required or questions arise, feel free to contact me or my Assistant, Philip N. Raines, at anytime.

Sincerely,

MARBLEHEAD LIME COMPANY

Eugene J. Penman  
Vice President of Operations

EJP/bb  
Attachments

cc: M. D. Henery (w/attachments)  
P. N. Raines                   "  
file                               "